

PROCESSING ARCHITECTURE HAVING PARALLEL ADDITION CAPABILITY

ABSTRACT OF THE DISCLOSURE

According to the invention, a processing core that executes a compare instruction is disclosed. The processing core includes a register file, comparison logic,
5 decode logic, and a store path. Included in the register file are a number of general-purpose registers. The general-purpose registers include a first input operand register, a second input operand register and an output operand register. Comparison logic is coupled to the register file. The comparison logic tests for at least two of the following relationships: less than,
10 equal to, greater than and no valid relationship. The decode logic selects the output operand register from the plurality of general-purpose registers. The store path extends between the comparison logic and the selected output operand register.

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